

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1522	(607/9).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/14 15:42
S2	80	mitello.in.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/14 15:43
S3	2	mitello.in. and carmelo	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/14 15:44
S4	50	("20060142811" "6725091" "20010034540" "20050137635" "20040127944" "4596252" "4773401" "6119040" "6238419" "6591131" "20020022783" "20040147968" "4552150" "7139608" "20010049543" "20040024421" "20040243192" "20040260351" "20070055315" "5304208" "5899928" "4919136" "5184615" "5792204" "6539261" "20010031995" "20040138718" "5534018" "5713935" "5792194" "5800467" "6148234" "6430439" "20040116994" "5578067" "20050240233" "5003976" "5417717" "5183040" "5305745" "5417713" "7082329" "20040049238" "20050288726" "6477406" "5782885" "4402322" "5228437" "5300093" "5792205" ).pn.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/14 15:45
S5	578	biotronik.as.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/14 15:45
S6	298	(biotronik and GMBH).as.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/14 15:45
S7	197	S6 and pacemaker	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/14 15:48
S8	8	S7 and biventricular	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/14 15:48

## EAST Search History

S9	14	S7 and (biventricular bi-ventricular v-v vv)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/14 15:48
S10	6	S9 and impedance	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/14 16:25
S11	284	S5 and pacemaker	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/14 15:48
S12	9	S11 and biventricular	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/14 15:49
S13	1	S12 not S8	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/14 15:49
S14	8	("20010012953" "20010049542" "578 2884" "5902325" "6134472" "6238420" "6263243" "6278894").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/14 16:51
S15	1	("6278894").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/15 10:33
S16	1	("6070100").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/15 10:34
S17	4	((("6223079") or ("6223082") or ("6219759") or ("6238420") or ("2001010009")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/15 10:35
S18	4	((("6223079") or ("6223082") or ("6219759") or ("6238420") or ("2001010009")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/15 10:36
S19	0	("2001012953").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/15 10:36
S20	1	("20010012953").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/15 10:38
S21	5	(noren and ljunstrom and kalling).in.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 10:39

## EAST Search History

S22	1	("6263243").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/15 10:40
S23	1	("5902325").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/15 10:40
S24	1	("6134472").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/15 10:40
S25	1	("5782884").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/15 10:40
S26	5268	(pace pacing pacemaker) and (bi-ventricular biventricular v-v vv (((right adj ventricle) RV) near3 ((left adj ventricle) LV)))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 11:10
S27	2603	(pace pacing pacemaker) same (bi-ventricular biventricular v-v vv (((right adj ventricle) RV) near3 ((left adj ventricle) LV)))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 10:49
S28	241	S27 and ((interventricular inter-ventricular RV-LV VVI DDD) near3 delay)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 10:50
S29	28	S28 and ((intra-cardiac intracardiac intra-ventricular intraventricular) near3 (impedance bioimpedance bio-impedance))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 10:51
S30	18	S29 and (derivative average)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 10:52
S31	10	S29 not S30	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 10:52

## EAST Search History

S32	30	(US-20060142811-\$ or US-20050240233-\$ or US-20050049646-\$ or US-20010049542-\$ or US-20010012953-\$ or US-20050137635-\$ or US-20040127944-\$ or US-20050125042-\$ or US-20050038481-\$ or US-20010031993-\$).did. or (US-6505070-\$ or US-6339724-\$ or US-6278894-\$ or US-6263243-\$ or US-6238420-\$ or US-6134472-\$ or US-5902325-\$ or US-5782884-\$ or US-6725091-\$ or US-4773401-\$ or US-6070100-\$ or US-6223082-\$ or US-6223079-\$ or US-6219579-\$ or US-6792310-\$ or US-6708061-\$ or US-6522923-\$ or US-6567700-\$ or US-6556866-\$).did. or (WO-2004050177-\$).did.	US-PGPUB; USPAT; EPO	OR	ON	2007/05/15 11:02
S33	3	S32 and ((second 2nd) adj derivative)	US-PGPUB; USPAT; EPO	OR	ON	2007/05/15 11:27
S34	6	S32 and (average near3 (impedance bioimpedance bio-impedance))	US-PGPUB; USPAT; EPO	OR	ON	2007/05/15 11:10
S35	3	S34 and (bi-ventricular biventricular v-v vv (((right adj ventricle) RV) near3 ((left adj ventricle) LV)) vvi ddd)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 11:14
S36	18	S30 and (bi-ventricular biventricular v-v vv (((right adj ventricle) RV) near3 ((left adj ventricle) LV)) vvi ddd)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 11:14
S37	16	S32 and interventricular	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 11:19
S38	14	S37 and ((peak average derivative) same (impedance bioimpedance bio-impedance))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 11:19
S39	67	pacemaker and biventricular and (interventricular rv-lv vvi) and (impedance bioimpedance bio-impedance) and derivative	US-PGPUB; USPAT; EPO	OR	ON	2007/05/15 11:29

## EAST Search History

S40	8	pacemaker and biventricular and (interventricular rv-lv vvi) and (impedance bioimpedance bio-impedance) and ((second 2nd) near3 derivative)	US-PGPUB; USPAT; EPO	OR	ON	2007/05/15 12:34
S41	1	("6604002").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/15 12:34
S42	31	(US-20060142811-\$ or US-20050240233-\$ or US-20050049646-\$ or US-20010049542-\$ or US-20010012953-\$ or US-20050137635-\$ or US-20040127944-\$ or US-20050125042-\$ or US-20050038481-\$ or US-20010031993-\$).did. or (US-6505070-\$ or US-6339724-\$ or US-6278894-\$ or US-6263243-\$ or US-6238420-\$ or US-6134472-\$ or US-5902325-\$ or US-5782884-\$ or US-6725091-\$ or US-4773401-\$ or US-6070100-\$ or US-6223082-\$ or US-6223079-\$ or US-6219579-\$ or US-6792310-\$ or US-6708061-\$ or US-6522923-\$ or US-6567700-\$ or US-6556866-\$ or US-6604002-\$).did. or (WO-2004050177-\$).did.	US-PGPUB; USPAT; EPO	OR	ON	2007/05/15 13:34
S43	29	S42 and (average peak maximum derivative)	US-PGPUB; USPAT; EPO	OR	ON	2007/05/15 13:38
S44	2	("0212290").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/15 16:14
S45	7	"0212290"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 16:18
S46	5	"0201817"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 16:44
S47	19	S42 and (pulse adj generator)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 16:45
S48	21	S42 and ((pulse adj generator) stimulator)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 16:45

## EAST Search History

S49	0	S48 and molin.in.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 16:46
S50	30	S42 and (housing case)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 16:49
S52	30	S42 and pulse	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 16:49
S53	31	(US-20060142811-\$ or US-20050240233-\$ or US-20050049646-\$ or US-20010049542-\$ or US-20010012953-\$ or US-20050137635-\$ or US-20040127944-\$ or US-20050125042-\$ or US-20050038481-\$ or US-20010031993-\$).did. or (US-6505070-\$ or US-6339724-\$ or US-6278894-\$ or US-6263243-\$ or US-6238420-\$ or US-6134472-\$ or US-5902325-\$ or US-5782884-\$ or US-6725091-\$ or US-4773401-\$ or US-6070100-\$ or US-6223082-\$ or US-6223079-\$ or US-6219579-\$ or US-6792310-\$ or US-6708061-\$ or US-6522923-\$ or US-6567700-\$ or US-6556866-\$ or US-6604002-\$).did. or (WO-2004050177-\$).did.	US-PGPUB; USPAT; EPO	OR	ON	2007/05/15 18:01
S54	3	S53 and ((second 2nd) near3 derivative)	US-PGPUB; USPAT; EPO	OR	ON	2007/05/15 18:02
S55	13	S53 and derivative	US-PGPUB; USPAT; EPO	OR	ON	2007/05/15 18:13
S56	5	S53 and (biphas\$2 bi-phas\$2)	US-PGPUB; USPAT; EPO	OR	ON	2007/05/15 18:15
S57	12	S53 and (average same impedance)	US-PGPUB; USPAT; EPO	OR	ON	2007/05/15 18:20
S58	8	S53 and (window same (left adj (ventricle ventricular)))	US-PGPUB; USPAT; EPO	OR	ON	2007/05/15 18:20

## EAST Search History

S59	347	((cardiac heart myocardi\$2) and (pace pacing pacemaker) and (pulse ipg) and ((right adj ventric\$4) (left adj ventric\$4) biventricular) and electrode).clm.	US-PGPUB; USPAT	OR	ON	2007/09/15 16:58
S60	102	((cardiac heart myocardi\$2) and (pace pacing pacemaker) and (pulse ipg) and ((right adj ventric\$4) (left adj ventric\$4) biventricular) and electrode and (interventric\$4 delay) and (control\$3 scu processor microprocessor computer cpu)).clm.	US-PGPUB; USPAT	OR	ON	2007/09/15 16:59
S61	24	((cardiac heart myocardi\$2) and (pace pacing pacemaker) and (pulse ipg) and ((right adj ventric\$4) (left adj ventric\$4) biventricular) and electrode and (interventric\$4 delay) and (control\$3 scu processor microprocessor computer cpu) and impedance).clm.	US-PGPUB; USPAT	OR	ON	2007/09/15 16:59
S62	2	((cardiac heart myocardi\$2) and (pace pacing pacemaker) and (pulse ipg) and ((right adj ventric\$4) (left adj ventric\$4) biventricular) and electrode and (interventric\$4 delay) and (control\$3 scu processor microprocessor computer cpu) and impedance and derivative).clm.	US-PGPUB; USPAT	OR	ON	2007/09/15 17:02
S63	1	((cardiac heart myocardi\$2) and (pace pacing pacemaker) and (pulse ipg) and ((right adj ventric\$4) (left adj ventric\$4) biventricular) and electrode and (interventric\$4 delay) and (control\$3 scu processor microprocessor computer cpu) and impedance and (second adj derivative)).clm.	US-PGPUB; USPAT	OR	ON	2007/09/15 17:00
S64	1	((cardiac heart myocardi\$2) and (pace pacing pacemaker) and (pulse ipg) and ((right adj ventric\$4) (left adj ventric\$4) biventricular) and electrode and (control\$3 scu processor microprocessor computer cpu) and impedance and (second adj derivative)).clm.	US-PGPUB; USPAT	OR	ON	2007/09/15 17:00

## EAST Search History

S65	1	((cardiac heart myocardi\$2) and (pace pacing pacemaker) and ((right adj ventric\$4) (left adj ventric\$4) biventricular) and electrode and (control\$3 scu processor microprocessor computer cpu) and impedance and (second adj derivative)).clm.	US-PGPUB; USPAT	OR	ON	2007/09/15 17:01
S66	1	((cardiac heart myocardi\$2) and (pace pacing pacemaker) and ((right adj ventric\$4) (left adj ventric\$4) biventricular) and electrode and (control\$3 scu processor microprocessor computer cpu) and (second adj derivative)).clm.	US-PGPUB; USPAT	OR	ON	2007/09/15 17:01
S67	1	((cardiac heart myocardi\$2) and (pace pacing pacemaker) and ((right adj ventric\$4) (left adj ventric\$4) biventricular) and electrode and (second adj derivative)).clm.	US-PGPUB; USPAT	OR	ON	2007/09/15 17:01
S68	363	(cardiac heart myocardi\$2) and (pace pacing pacemaker) and (pulse ipg) and ((right adj ventric\$4) (left adj ventric\$4) biventricular) and electrode and (interventric\$4 delay) and (control\$3 scu processor microprocessor computer cpu) and impedance and derivative	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/15 17:02
S69	121	(cardiac heart myocardi\$2) and (pace pacing pacemaker) and (pulse ipg) and ((right adj ventric\$4) (left adj ventric\$4) biventricular) and electrode and (interventric\$4) and (control\$3 scu processor microprocessor computer cpu) and impedance and derivative	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/15 17:02
S70	12	(cardiac heart myocardi\$2) and (pace pacing pacemaker) and (pulse ipg) and ((right adj ventric\$4) (left adj ventric\$4) biventricular) and electrode and (interventric\$4) and (control\$3 scu processor microprocessor computer cpu) and impedance and (second adj derivative)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/15 17:02
S71	1	(interventric\$4 RV-LV LV-RV) same (second adj derivative)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/09/15 17:09



## EAST Search History

S72	33	(US-20060142811-\$ or US-20050240233-\$ or US-20050137635-\$ or US-20040127944-\$ or US-20050049646-\$ or US-20010012953-\$ or US-20010049542-\$ or US-20050038481-\$ or US-20010031993-\$ or US-20050125042-\$).did. or (US-7225014-\$ or US-7090648-\$ or US-6725091-\$ or US-6505070-\$ or US-6278894-\$ or US-6263243-\$ or US-4773401-\$ or US-6134472-\$ or US-5782884-\$ or US-6070100-\$ or US-6339724-\$ or US-6238420-\$ or US-5902325-\$ or US-6223082-\$ or US-6223079-\$ or US-6792310-\$ or US-6708061-\$ or US-6219579-\$ or US-6556866-\$ or US-6522923-\$ or US-6567700-\$ or US-6604002-\$).did. or (WO-2004050177-\$).did.	US-PGPUB; USPAT; EPO	OR	ON	2007/09/17 09:30
S73	22	S72 and ((difference subtract\$3 maximum minimum) same (z impedance))	US-PGPUB; USPAT; EPO	OR	ON	2007/09/17 10:25
S74	6	S72 and ((difference subtract\$3 maximum minimum) same (z impedance) same (maximiz\$3 greatest))	US-PGPUB; USPAT; EPO	OR	ON	2007/09/17 10:10
S75	10	S72 and ((difference subtract\$3 maximum minimum) same (z impedance) same (stimulat\$3 rate))	US-PGPUB; USPAT; EPO	OR	ON	2007/09/17 10:12
S76	2	S72 and ((difference subtract\$3 maximum minimum) same (z impedance) same (stimulat\$3 rate) same derivative)	US-PGPUB; USPAT; EPO	OR	ON	2007/09/17 10:13
S77	22	S72 and ((difference subtract\$3 maximum minimum) same (z impedance bioimpedance))	US-PGPUB; USPAT; EPO	OR	ON	2007/09/17 10:29
S78	7	((("5902325") or ("7090648") or ("5782884") or ("6134472") or ("20050725042") or ("6238420") or ("6708061") or ("6263243")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/17 10:31
S79	8	((("5902325") or ("7090648") or ("5782884") or ("6134472") or ("20050125042") or ("6238420") or ("6708061") or ("6263243")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/17 10:32
S80	7	((("5902325") or ("5782884") or ("6134472") or ("20050125042") or ("6238420") or ("6708061") or ("6263243")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/17 10:34

## EAST Search History

S81	2	S80 and pacemaker and (ventricle ventricular) and (biventricular RV-LV LV-RV) and electrode	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/09/17 10:35
S82	6	S80 and pacemaker and (ventricle ventricular) and electrode	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/09/17 10:36
S83	26	("20010012953" "20010049542" "20040127944" "20050038481" "20050049646" "20050125042" "20050240233" "4773401" "5782884" "5902325" "6070100" "6134472" "6219579" "6223079" "6223082" "6238420" "6263243" "6278894" "6339724" "6505070" "6522923" "6556866" "6567700" "6708061" "6725091" "6792310").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/09/17 10:36
S84	1	S79 not S83	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/09/17 10:36
S85	2410	607/9	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/09/25 14:01
S86	558	(607/17).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/25 14:05
S87	677	(600/508).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/25 14:05

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S88	33	(US-20060142811-\$ or US-20050240233-\$ or US-20050137635-\$ or US-20040127944-\$ or US-20050049646-\$ or US-20010049542-\$ or US-20010012953-\$ or US-20050125042-\$ or US-20050038481-\$ or US-20010031993-\$).did. or (US-6725091-\$ or US-4773401-\$ or US-6339724-\$ or US-6505070-\$ or US-6263243-\$ or US-6278894-\$ or US-5782884-\$ or US-6238420-\$ or US-6134472-\$ or US-6223079-\$ or US-5902325-\$ or US-6070100-\$ or US-6223082-\$ or US-6219579-\$ or US-6792310-\$ or US-6708061-\$ or US-6522923-\$ or US-6567700-\$ or US-6556866-\$ or US-6604002-\$ or US-7090648-\$ or US-7225014-\$).did. or (WO-2004050177-\$).did.	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 14:11
S89	26	("20010012953" "20010049542" "200 40127944" "20050038481" "20050049 646" "20050125042" "20050240233" " 4773401" "5782884" "5902325" "6070 100" "6134472" "6219579" "6223079"  "6223082" "6238420" "6263243" "62 78894" "6339724" "6505070" "652292 3" "6556866" "6567700" "6708061" "6 725091" "6792310").PN.	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 14:11
S90	7	S88 not S89	US-PGPUB; USPAT; EPO	OR	ON	2007/09/25 14:11